PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	ERATION TREA			
To: OKABE Masao		PCT	٠	: ' ·
No.602,Fuji Bldg.,2-3,Marunouchi 3-chome,Chiyoda-ku,Tokyo		ITTEN OPINION OF ONAL SEARCHING	AUTI	IORITY
		(PCT Rule 43bis.1)	. :	
	Date of mailing (day/month/year)	08. 3. 200)5	
Applicant's or agent's file reference 10003824W001	FOR FURTHER A			
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International Patent Classification (IPC) or both national classif Int.Cl. C09K11/06, H05B33/14	ication and IPC			
Applicant CANON KABUSHIKI KAISHA				.
This opinion contains indications relating to the following is:	tems:			
Box No. I Basis of the opinion				
Box No. II Priority Box No. III Non-establishment of opinion with re	egant to novelty inventive	e step and industrial an	alias Liti	_
Box No. IV Lack of unity of invention		о вырана наваны ар	·	
Box No. V Reasoned statement under Rule 43bis. citations and explanations supporting	(a)(i) with regard to nove such statement	lty, inventive step or ind	ustrial a	pplicability
Box No. VI Certain documents cited				
Box No. VII Certain defects in the international ap				
Box No. VIII Certain observations on the internation	nal application			
FURTHER ACTION		•		
If a demand for international preliminary examination is m International Preliminary Examining Authority ("IPEA") exce other than this one to be the IPEA and the chosen IPEA has opinions of this International Searching Authority will not	opt that this does not appl	u zubana dha analisasa sh		_ 4 _ 4
If this opinion is, as provided above, considered to be a writte a written reply together, where appropriate, with amendments PCT/ISA/220 or before the expiration of 22 months from the p	n opinion of the IPEA, the		submit t of maili	o the IPEA ng of Forn
For further options, see Form PCT/ISA/220.	windiotid &	Anna mm.		
For further details, see notes to Form PCT/ISA/220.				· ·
ate of completion of this opinion 10.02	.2004		:	. \
me and mailing address of the ISA/JP	Authorized officer		477	9279
Japan Patent Office	YOKO WATAN	ABE	4V	9419
-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Telephone No. +81-3	-3581-1101 Ext. 3	483	

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/017331

Box No. I	Basis of the opinion	
which it	ard to the language, this opinion has been established on the basis of the international application in the lar was filed, unless otherwise indicated under this item.	
Th	is opinion has been established on the basis of a translation from the original language into the following la , which is the language of a translation furnished for the purposes of international searce	anguage
. · Ru	elles 12.3 and 23.1(b)).	II (www.
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2. With reg	ard to any nucleotide and/or amino acid sequence disclosed in the international application and necessa avention, this opinion has been established on the basis of:	iry to the
a. type of	i material	
	a sequence listing	
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Ш	table(s) related to the sequence listing	
h format	of material	• • •
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	filing/furnishing	
님	contained in the international application as filed.	
Ц	filed together with the international application in computer readable form.	•
	furnished subsequently to this Authority for the purposes of search.	
Ille	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto I d or furnished, the required statements that the information in the subsequent or additional copies is identicated application as filed or does not go beyond the application as filed, as appropriate, were furnished.	has been al to that
4. Additions	al comments:	
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/ 017331

. Statement			
Novelty (N)	Claims	1,2,3,5,6,7,8,10-12	YE
	Claims	4,9,13	NO
Inventive step (IS) Claims	Claims	3,5,7,11	YE
	Claims	1,2,4,6,8-10,12,13	NO
Industrial applicability (IA)	Claims	1-13	YE
	Claims		NO

2. Citations and explanations

D1:J.Chem.Soc., Dalton Trans., (1996), P.2889-2891

D2:J.Chem.Soc., Dalton Trans., (1999), P.1455-1459

D3:Inorganic Chemistry Commun., (2000), Vol.3, No.11, P.585-589

D4:J.Am.Chem.Soc.,(1987), Vol.109, No.14, P.4255-4260

D5:Inorganica Chimica Acta, (1994), Vol. 225, No. 1-2, P. 251-254

D6:JP 63-264692 A

D7:JP 2002-231454 A

(claim1)

The subject matter of claim 1 does not appear to involve an inventive step in view of the D1-6 cited in the ISR. D1-5 disclose some luminescent or fluorescent or phosphorescent materials having a structure represented by the formula(1). To use a luminescent or fluorescent or phosphorescent material as EL element layer(light-emittin g layer)'s material were well-known in the technical field(see D6). Therefore, employing the luminescent or fluorescent or phosphorescent materials disclosed in D1-5 as lightemitting layer's material would have been easily conceived by the person skilled in the art

(claim2,6,10)

The subject matter of claim 2,6 does not appear to involve an inventive step in view of the D1,2,6 cited in the ISR. D1,2 discloses some fluorescent or phosphorescent materials having a structure represented by the formula(2). To use a fluorescent or phosphorescent material as EL element layer(light-emitting layer)'s material were well-known in the technical field(see D6). Therefore, employing the fluorescent or phosphorescent materials disclosed in D1,2 as light-emitting layer's material would have been easily conceived by the person skilled in the art.

(claim3)

The subject matter of claim 3 is neither disclosed in any of the documents cited in the IS R nor obvious to a person skilled in the art.

(claim4)

The subject matter of claim 4 does not meet the requirement of novelty.

D7 disclose a luminescent material a trinuclear metal coordination compound having a p artial structure represented by the formula(4)(see claim,[0057]-[0067]).

And D7 also disclose the metal is selected from the group consisting of

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of: V

group 5 to 11 elements of the periodic table. So it disclose the metal involves Cu.

(claim5.7)

The subject matter of claim 5,7 is neither disclosed in any of the documents cited in the ISR nor obvious to a person skilled in the art.

(claim8)

The subject matter of claim 8 does not appear to involve an inventive step in view of the D1-6 cited in the ISR. There is a probability that the materials disclosed in D1-5 have the distance between Cu atoms equal or less than 3.2 angstrom.

(claim9)

The subject matter of claim 9 does not meet the requirement of novelty. There is a probability that the materials disclosed in D7 have the distance between metal atoms equal or less than 3.2 angstrom.

(claim11)

The subject matter of claim 11 is neither disclosed in any of the documents cited in the ISR nor obvious to a person skilled in the art.

(claim 12)

The subject matter of claim 12 does not appear to involve an inventive step in view of the D1-6 cited in the ISR. It is well-known that a luminescent layer contains a part of 100% of coordination compound.

(claim 13)

The subject matter of claim 13 does not meet the requirement of novelty in view of the D7. It is well-known that a luminescent layer contains a part of 100% of coordination compound.